MONTANA WELL LOG REPORT

Form No. 603 R2-04

07N 09W 1 ABA

Well ID# _____

This log reports the activities of a licensed Montana well driller and serves as the official record of work done within the borehole and casing and describes the amount of water encountered. **This form is to be completed by the driller and filed with MBMG within 60 days of completion of the work. Acquiring Water Rights is the well owner's responsibility and is not accomplished by the filing of this report.**

Well log information is stored in the Groundwater Information Center at the Montana Bureau of Mines and Geology (Butte) and water right information is stored in the Water Rights Bureau records (Helena).

For fields that are not applicable, enter NA. Record additional information in the REMARKS section.

1. WELL OWNER:
Name James Matt + Susanne Hill
Mailing address 925 Milwakee Ave.
Deer Lodge, MT 59722-1239

2. WELL LOCATION: List ¼ from smallest to largest
_____ ¼ NE ¼ NW ¼ NE ¼, Section 01
Township 07 N/S Range 09 E/W County Deer Lodge
Lot _____, Tract/Blk ____ Subdivision Name Cottonwood Creek Ranch
Certificate of Survey Plat C-515
Well Address 130 Deer Haven Dr. Deer Lodge
GPS ☐ Yes ☒ No
Latitude _____ Longitude _____
Error as reported by GPS locator (± feet) _____
Horizontal datum ☐ NAD27 ☐ WGS84

3. PROPOSED USE: ☒ Domestic ☐ Stock ☐ Irrigation
☐ Public water supply ☐ Monitoring Well
☐ Geothermal ☐ Closed System ☐ Open System ☐ Reinjection
☐ Extraction H_2O Temp _____ Number of Wells in System _____
☐ Other: _____

4. TYPE OF WORK:
☒ New well ☐ Deepen existing well ☐ Abandon existing well
Method: ☐ Cable ☒ Rotary ☐ Other: _____

5. WELL CONSTRUCTION DETAILS:
Borehole:
Dia. 10 in. from 0 ft. to 25 ft.
Dia. 6 in. from 25 ft. to 90 ft.
Dia. _____ in. from _____ ft. to _____ ft.

Casing:
Steel: Wall thickness .25 ☐ Threaded ☒ Welded
Dia. 6 in. from -1.5 ft. to 38.5 ft.
Dia. _____ in. from _____ ft. to _____ ft.
Casing Shoe: ☒ Yes ☐ No

Plastic: Pressure Rating 220 lbs. ☐ Threaded ☒ Welded
Dia. 4 in. from 39 ft. to 89 ft.

Perforations/Slotted Pipe:
Type of perforator used _____
Size of perforations/slots _____ in. by _____ in.
_____ no. of perforations/slots from _____ ft. to _____ ft.
_____ no. of perforations/slots from _____ ft. to _____ ft.

Screens: ☒ Yes ☐ No
Material PVC
Dia. 4 Slot size .025 from 49 ft. to 89 ft.
Dia. _____ Slot size _____ from _____ ft. to _____ ft.

Gravel Packed: ☐ Yes ☒ No
Size of gravel _____
Gravel placed from _____ ft. to _____ ft.

Packer: ☐ Yes ☒ No
Type _____ Depth(s) _____

Grout: Material used Bentonite
Depth from _____ ft. to _____ ft. OR ☒ Continuous feed

6. WELL TEST DATA:
A well test is required for all wells. (*See details on well log report cover.*)
☒ Static water level 22 ft. below top of casing **or**
☐ Closed-in artesian pressure _____ psi.
How was test flow measured:
bucket/stopwatch, weir, flume, flowmeter, etc _____
Yellowstone Controlled Groundwater Area - Water Temperature _____ °F
☐ AQUIFER TEST DATA FORM ATTACHED

Test - 1 hour minimum
Drawdown is the amount water level is lowered below static level.
All depth measurements shall be from the top of the well casing.
Time of recovery is hours/minutes since pumping stopped.

Air test*
16 gpm with drill stem set at 90 ft. for 1 hours
Time of recovery 1 hrs/min. Recovery water level 22 ft.

OR Bailer test*
_____ gpm with _____ ft. of drawdown after _____ hours
Time of recovery _____ hrs/min. Recovery water level _____ ft.

OR Pump test*
Depth pump set for test _____ ft.
____ gpm pump rate with _____ ft. of drawdown after ____ hrs pumping
Time of recovery _____ hrs/min. Recovery water level _____ ft.

OR Flowing Artesian*
_____ gpm for _____ hours
Flow controlled by _____

**During the well test the discharge rate shall be as uniform as possible. This rate may or may not be the sustainable yield of the well. Sustainable yield does not include the reservoir of the well casing.*

7. WELL LOG: Record depth(s) that water is encountered. PA

Depth, Feet From	Depth, Feet To	Material: color/rock and type/descriptor (example: blue/shale/hard, or brown/gravel/water, or brown/sand/heaving)
0	8	soil w/boulders
8	12	gravel
12	32	sandy brown clay w/ fine gravel
32	50	sandy brown clay
50	54	gravel
54	77	sandy brown clay
77	90	gravel

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☐ ADDITIONAL SHEETS ATTACHED

8. DATE WELL COMPLETED: 9-13-21

9. REMARKS: _____

10. DRILLER/CONTRACTOR'S CERTIFICATION:
All work performed and reported in this well log is in compliance with the Montana well construction standards. This report is true to the best of my knowledge.
Name, firm, or corporation (print) Western Water Wells
Address P.O. Box 4762 Helena, MT 59604
Signature Jack Clark
Date 9-18-21 License no. 697
License type: ☐ MWC ☒ WWC ☐ WWD

Montana Bureau of Mines & Geology
The University of Montana
1300 West Park Street
Butte, MT 59701

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